

# Center for Regulatory Services, Inc.

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April 22, 2015

**CBIC Control Number**

**364819**

U.S. Environmental Protection Agency – East  
Attn: TSCA Section 8(e)  
Room 6428  
1201 Constitution Avenue, NW  
Washington, DC 20004

SUBJECT: TSCA 8(e) Notification  
LVE L-99-62

2015 APR 28 AM 11:50

RECEIVED  
OPPT CBIC

The enclosed aquatic tox results that came the attention of JSR Micro, Inc., April 17, 2015, for the subject substance that is identified in Low Volume Exemption L-99-62.

The results of the aquatic tox testing of the substance is only identified as **TRIBIP**.

96-hour LC50 Acute Toxicity Study in Fish (*Oryzias latipes*) - 10-100 mg/L

48-hour EC50 Acute Immobilization in *Daphnia magna* – <1.0 mg/L

72-hour EC50 Algal Growth Inhibition in *Pseudokirchneriella subcapitata* - <1.0 mg/L

Please feel free to contact the undersigned if you have any questions or if we can provide additional information.

Sincerely,



William A. Olson, Ph.D.

Agent

JSR Micro, Inc.

WAO:gbt  
JSR-8E-TRIBIP

Enclosures  
3 Aquatic Tox Reports (6 pages)

cc: Y. Ueda/T. Ozag, JSR (w/o Enclosures)



Appearance of test solution: Colorless and clear (at the start of exposure: visual)

6. Result

96-hour median lethal concentration (96hr LC<sub>50</sub>):

10-100 mg/L (nominal concentration)

Table Result of cumulative mortality and quality of test solution

Test level (mg/L)	Cumulative mortality (%)				Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	72 hours	96 hours	At the start	At the end	At the start	At the end
Control	0	0	0	0	8.2	8.1	7.9	7.9
1.0	0	0	0	0				
10	0	0	0	0				
100	100	100	100	100	8.3	8.4 <sup>a</sup>	8.0	7.9 <sup>a</sup>

a It indicates the measured value at the time that mortality of all organisms was confirmed. (3 hours after the start of exposure)

March 23, 2015

## TEST REPORT

- A 48-hour Acute Immobilization Study in *Daphnia magna* -

Chemicals Evaluation and Research Institute,  
Japan, Kurume  
3-2-7, Miyanojin, Kurume-shi,  
Fukuoka 839-0801, Japan

1. Test item  
TRIBIP
2. Sponsor  
JSR Corporation
3. Objective  
To determine acute effects of the test item to daphnids
4. Dates  
Exposure initiation      March 18, 2015  
Exposure termination    March 20, 2015
5. Materials and methods  
 Test organism      *Daphnia magna* (Clone A)  
 Exposure conditions  
   Exposure duration:    48 hours  
   Test type:            Static regime  
   Test concentration:   100, 10, 1.0 mg/L as nominal concentration, and a control  
   Preparation of test solution: The test item and dilution water were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 µm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
- Environmental conditions  
   Dilution water:      Dechlorinated tap water  
   Temperature:        20±1°C  
   Number of organisms: 20 daphnids/test level (5 daphnids/test vessel, 4 replicates)  
   Volume of test solution: 400 mL/test level (100 mL/test vessel, 4 replicates)  
   Test vessel:          100 mL glass beaker  
   Lighting condition:   Shading condition  
                               It was conducted under the yellow fluorescent light at the preparation of test solution, handling of test organism, measurement of water quality and observation of test organisms, and under the room light at filtering the test solutions.
- Feeding:                No feeding
- Aeration:               No aeration
- Observation and measurements  
   Observation of organisms: Immobility was observed at 24 and 48 hours after exposure. Daphnids were considered immobile if they were not able to swim within 15 seconds after gentle agitation of the test vessel.
- Water quality:        Dissolved oxygen concentration and pH were measured of 100 mg/L and the control at the start and end of exposure.
- Appearance of test solution: Colorless and clear (at the start of exposure: visual)

## 6. Result

48-hour median effective concentration (48hr EC<sub>50</sub>):

&lt;1.0 mg/L (nominal concentration)

Table Result of immobility and quality of test solution

Test level (mg/L)	Immobility (%)		Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	At the start	At the end	At the start	At the end
Control	0	0	8.8	8.8	7.6	7.6
1.0	40	100				
10	100	100				
100	100	100	8.9	8.8	7.7	7.8

March 30, 2015

## TEST REPORT

— Algal Growth Inhibition Study in *Pseudokirchneriella subcapitata* —

Chemicals Evaluation and Research Institute,  
Japan, Kurume  
3-2-7, Miyanojin, Kurume-shi,  
Fukuoka 839-0801, Japan

1. Test item	TRIBIP
2. Sponsor	JSR Corporation
3. Objective	To determine the effects of the test item on growth of algae
4. Dates	Exposure initiation      March 16, 2015 Exposure termination    March 19, 2015
5. Materials and methods	
Test organism	<i>Pseudokirchneriella subcapitata</i>
Exposure conditions	
Exposure duration:	72 hours
Type test:	Incubation with rotary shaking (approximately 100 rpm)
Test concentration:	100, 10, 1.0 mg/L as nominal concentration and a control
Preparation of test solution:	The test item and medium were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 µm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
Environmental conditions	
Medium:	OECD medium
Temperature:	21-24°C (not varied more than ± 2°C)
Initial cell concentration:	10 <sup>4</sup> cells/mL
Volume of test solution:	300 mL/test level (100 mL/ test vessel × 3 replicates)
Test vessel:	Sterilized 300 mL Erlenmeyer flask with gas-permeable silicon rubber plug
Lighting condition:	Nominal 90 µmol·m <sup>-2</sup> ·s <sup>-1</sup> (within ± 20% of nominal, within ± 15% from the average light intensity) Continuous illumination provided by fluorescent lights with wavelength range of 400-700 nm
Measurements	
Biomass:	Cell concentration was measured.
Condition of test solution:	pH of 100 mg/L and control were measured at the start and end of exposure.
Appearance of test solution:	Clear and colorless (at the start of exposure: visual)

## 6. Result

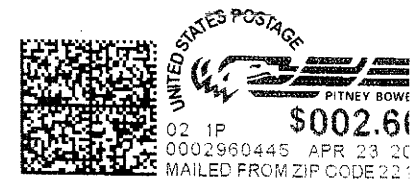
72-hour median effective concentration (72hr  $E_rC_{50}$ ) [Based on growth rate (0-3d)]  
 : <1.0 mg/L (nominal concentration)

No Observed Effect Concentration (NOEC) : <1.0 mg/L (nominal concentration)

Table Result of growth inhibition rate and quality of test solution

Test level (mg/L)	Growth inhibition rate (%) (Growth rate 0-3d)	pH	
		At the start	At the end
Control	-	7.8	7.8
1.0	101	/	/
10	173		
100	183		
		8.0	7.8

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